

--24. An isolated DNA segment encoding mammalian GDF-1 protein comprising a nucleotide sequence as defined in an open reading frame of Figure 2 or Figure 11A or Figure 11B.

25. The isolated DNA segment according to claim 24 further comprising a nucleotide sequence outside the open reading frame as defined in Figure 2 or Figure 11A or Figure 11B.

26. A recombinant DNA molecule comprising the isolated DNA segment according to claim 25 ^{operably linked to} ~~and~~ a vector.

27. A host cell stably transformed with the recombinant DNA molecule according to claim 26.

28. The host cell according to claim 27 wherein said cell is a prokaryotic cell.

29. The host cell according to claim 27 wherein said cell is a eukaryotic cell.

30. A method of producing a recombinant GDF-1 protein comprising culturing the host cell according to claim 27 under conditions such that the GDF-1 protein is produced, and isolating the GDF-1 protein.